

## OHIO TUMBLEWEEDS.

JOHN H. SCHAFFNER.

Tumbleweeds are characteristic of wind-swept plains and dry prairies. As the forests are rapidly disappearing, the conditions in Ohio are becoming very favorable for the introduction and development of such forms of vegetation. A few species are already abundant and some like *Amaranthus graecizans* appear to flourish better than on the prairies of the interior. The past summer a number of cornfields about Columbus were covered with very large tumbleweeds and during the winter a number of hedgerows were filled with them, presenting an appearance quite as striking as anything the writer has seen along this line.

The following is a list of the Ohio plants which may develop as tumbleweeds. Those with a question mark have not been seen by the writer to act as tumbleweeds and a few are given on the authority of Dr. W. J. Beal.

## ANNUAL TUMBLEWEEDS.

1. *Cycloloma atriplicifolium* (Spreng.) Coult.
2. *Salsola tragus* L.
3. *Amaranthus graecizans* L.
4. *Lepidium apetalum* Willd. Beal.
5. *Trifolium procumbens* L. Beal.
6. *Onagra biennis* (L.) Scop. Beal.

## TUMBLE-GRASSES.

7. *Panicum capillare* L.
8. *Panicum flexile* (Gattg.) Scrib.
9. *Eragrostis pectinacea* (Mx.) Steudl.
10. *Eragrostis trichodes* (Nutt.) Nash.
11. *Eragrostis capillaris* (L.) Nees. ?
12. *Eragrostis frankii* Steud. ?
13. *Eragrostis purshii* Schrad. ?
14. *Agrostis hyemalis* (Walt.) B.S. P.

## PERENNIAL TUMBLEWEEDS.

15. *Baptisia tinctoria* (L.) R. Br.